Pioneer sound.vision.soul

HTZ353DVD

DVD/CD Receiver

XV-DV353

Speaker System

S-DV353

HTZ656DVD

DVD/CD Receiver

XV-DV656

Speaker System

S-DV1T

S-DV1SW

Operating Instructions

Thank you for buying this Pioneer product.

Please read through these operating instructions so that you will know how to operate your model properly. After you have finished reading the instructions, put them in a safe place for future reference

Location: bottom of the unit

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1_En-A

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filed with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture. D3-4-2-1-3_A_En

WARNING

Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel. D3-4-2-1-4_A_En

WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment. D3-4-2-1-7a_A_En

VENTILATION CAUTION

When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 10 cm at top, 10 cm at rear, and 10 cm at each side).

WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed. D3-4-2-1-7b_A_En

CAUTION

The STANDBY/ON switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-2a_A_En

CAUTION
This product is a class 1 laser product, but this product contains a laser diode higher than Class 1.
To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.
The following caution label appears on your unit.
Location: top of the unit

CAUTION
CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.
ATTENTION
RADIATIONS LASER VISIBLES ET INVISIBLES DE CLASSE 3B QUAND OUVERT. EVITEZ TOUT EXPOSITION AU FAISCEAU.
ADVARSEL
KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING
KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT UTSÄTTA DIG FÖR STRÅLEN.
VORSICHT
BEI GEÖFFNETER ABDECKUNG IST SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG DER KLASSE 3B IM GERÄTEINNEREN VORHANDEN. NICHT DEM LASERSTRAHLAUSSETZEN!
PRECAUCIÓN
CUANDO SE ABRE HAY RADIACIÓN LÁSER DE CLASE 3B VISIBLE E INVISIBLE. EVITE LA EXPOSICIÓN A LOS RAYOS LÁSER.
VARO!
AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LUOKAN 3B LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VRW2257-A

CLASS 1
LASER PRODUCT

D3-4-2-1-8_B_En

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. **S002_En**

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period. **K041_En**

DRM (digital rights management) copy protection is a technology designed to prevent unauthorized copying by restricting playback, etc. of compressed audio files on devices other than the PC (or other recording equipment) used to record it. For detailed information, please see the instruction manuals or help files that came with your PC and/or software.

Operating Environment

Operating environment temperature and humidity:
+5 °C – +35 °C (+41 °F – +95 °F); less than 85 %RH
(cooling vents not blocked)
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light) **D3-4-2-1-7c_A_En**

If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal.
The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation). **D3-4-2-2-1a_A_En**

Contents

01 Controls and displays

Front panel 6
Remote control 6
Display 8

02 Getting started

Home theater sound setup 9
Using the Auto MCACC setup for optimal surround sound 9
Using the on-screen displays 10
Playing discs 11
Basic playback controls 11
Resume and Last Memory 11
DVD-Video disc menus 12
Video CD/Super VCD PBC menus 12
Listening to the radio 12
Improving poor FM reception 12
Reducing AM reception noise 13
Memorizing stations 13
Listening to station presets 13
Listening to other sources 13

03 Listening to your system

Auto listening mode 14
Listening in surround sound 14
Dolby Pro Logic II Music settings 14
Using Front Surround 15
Using Advanced Surround 15
Listening in stereo 15
Listening with headphones 15
Listening with Acoustic Calibration EQ . . . 15
Using the Sound Retriever 16
Enhancing dialog 16
Using the Tone controls 16
Adjusting the bass and treble 16
Quiet and Midnight modes 16
Boosting the bass level 16

04 Disc playback features

Scanning discs 17
Playing in slow motion 17
Frame advance/frame reverse 17
Playing a JPEG slideshow 17
Browsing DVD or Video CD/Super VCD discs with the Disc Navigator 18
Browsing WMA, MP3, MPEG-4 AAC, DivX video and JPEG files with the Disc Navigator 19
Looping a section of a disc 19
Using repeat play 19
Using random play 20
Creating a program list 20
Other functions available from the program menu 21
Searching a disc 21
Switching subtitles 21
Switching language / audio channels 21
Zooming the screen 22
Switching camera angles 22
Displaying disc information 22

05 USB playback

Using the USB interface 23
Basic playback controls 23
Scanning files 24
Playing a JPEG slideshow 24
Browsing files with the Navigator 24

06 Surround sound settings

Using the Setup menu 25

07 Video Adjust menu

Video Adjust menu 26

08 Initial Settings menu

Using the Initial Settings menu 27
Video Output settings 27
Language settings 28
Display settings 28
Options settings 29
Parental Lock 29
About DivX® VOD content 30

09 Other connections

Connecting external antennas 31
Connecting auxiliary audio components . . 31
Connecting the S-video output 31
Connecting using the component video output 32
About progressive scan video 32
Using this unit with a Pioneer plasma display 32
SR+ Setup for Pioneer plasma displays 33
Switching on the SR+ mode 33
Connecting using HDMI 34
Switching the HDMI audio setting 34
Resetting the HDMI connection 34
About HDMI 35

10 Additional information

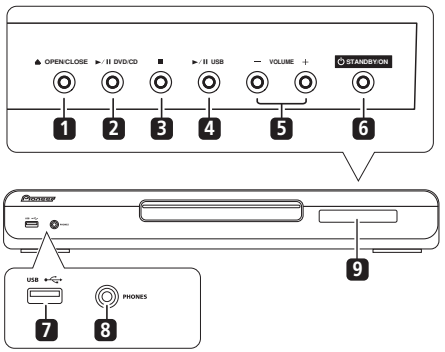
Optional system settings 36
Setting the sleep timer 37
Dimming the display 37

Disc / content format playback compatibility 37
Disc compatibility table 38
About DVD+R/DVD+RW compatibility 38
About DivX 38
About MPEG-4 AAC 39
About WMA 39
Using and taking care of discs 40
DVD Video regions 40
Installation and maintenance 40
Hints on installation 40
Cleaning the pickup lens 41
Problems with condensation 41
Moving the system unit 41
Screen sizes and disc formats 41
Troubleshooting 42
General 42
DVD/CD/Video CD player 43
Tuner 44
USB connection 44
HDMI connection *(XV-DV656 only)* 45
Error Messages 45
Resetting the system 46
Using the language code list 46
Language code list 47
Country/Area code list 47
Specifications 48

English

Chapter 1
Controls and displays

Front panel



1 ▲ OPEN/CLOSE
Opens/closes the disc tray.

2 ►/II DVD/CD
Selects the **DVD/CD** function and starts/pauses/resumes playback.

3 ■
Stops playback.

4 ►/II USB
Selects the **USB** function and starts/pauses playback.

5 VOLUME buttons

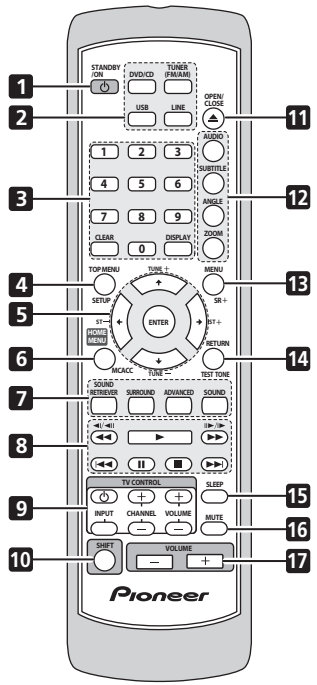
6 ⏻ STANDBY/ON
Switches the system on or into standby.

7 USB interface
Connect a USB device for playback (see *USB playback* on page 23).

8 PHONES jack
Connect headphones.

9 Display
See *Display* below.

Remote control



1 ⏻ STANDBY/ON
Switches the system on or into standby.

2 Function select buttons
Selects the source you want to listen to (**DVD/CD**, **TUNER**, **USB**, **LINE**).

3 Number buttons / CLEAR / DISPLAY
CLEAR – Clears an entry.

DISPLAY – Displays/changes disc information shown on-screen (page 22).

4 TOP MENU – Displays the top menu of a DVD disc in the play position—this may be the same as pressing **MENU** (page 12).

SHIFT+SETUP – Use to make various system and surround sound settings (page 12, 13, 25, 36 and 37).

5 Cursor, ENTER and tuning buttons
↑/↓/←/→ – Use the cursor buttons to navigate on-screen displays and menus.

ENTER – Selects an option or executes a command.

TUNE +/– – Tunes the radio.

ST +/– – Selects station presets when listening to the radio.

6 HOME MENU – Displays (or exits) the on-screen menu for Initial Settings, Play Mode functions, etc.

SHIFT+MCACC – Starts the Auto MCACC setup (page 9).

7 Sound controls
SOUND RETRIEVER – Press to restore CD quality sound to compressed audio sources (page 16).

SURROUND – Selects a Surround mode (page 14) or switches to stereo playback (page 15).

ADVANCED – Selects a Pioneer original surround mode (page 15) .

SOUND – Accesses the sound menu to adjust the tone, bass and treble, etc. (page 14 to 16).

8 Playback controls
See *Basic playback controls* on page 11, *Disc playback features* on page 17 and *USB playback* on page 23 for an explanation of these controls.

9 TV CONTROL buttons
These control Pioneer plasma displays.

10 SHIFT
Press to access the controls highlighted in green.

11 ⏏ OPEN/CLOSE
Opens/closes the disc tray.

12 DVD controls
AUDIO – Selects audio channel/language (page 21).

SUBTITLE – Displays/changes the subtitles (page 21).

ANGLE – Changes camera angle during DVD multi-angle scene playback (page 22).

ZOOM – Changes the screen zoom level (page 22).

13 MENU – Press to display a DVD disc or USB menu, or the Navigator (page 18 and 24).

SHIFT+SR+ – Switches the SR+ mode on/off (page 33).

14 RETURN – Returns to a previous menu screen.

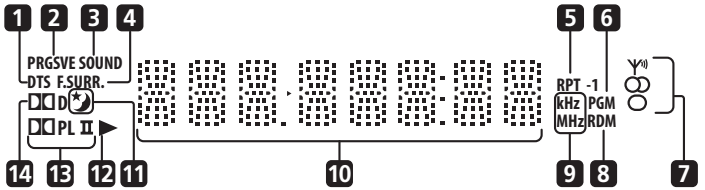
SHIFT+TEST TONE – Outputs the test tone (for speaker setup) (page 25).

15 SLEEP
Press to set the sleep timer (page 37).

16 MUTE
Mutes the sound (press again to cancel).

17 VOLUME +/–
Adjusts the volume.

Display



1 DTS
Lights during playback of a DTS source (page 14).

2 PRGSVE
Lights when progressive scan video output is selected (page 27).

3 SOUND
Lights when the Sound Retriever is active (page 15).

4 SURR.
Lights when one of the Advanced surround listening modes is selected (page 15).

F.SURR. *(XV-DV353 only)*
Lights when one of the Front Surround listening mode is selected (page 15).

5 RPT and RPT-1
RPT lights during repeat play. **RPT-1** lights during repeat one-track play (page 19).

6 PGM
Lights during program play (page 20).

7 Tuner indicators
– Lights when a broadcast is being received.

– Lights when a stereo FM broadcast is being received in auto stereo mode.

– Lights when FM mono reception is selected.

8 RDM
Lights during random play (page 20).

9 kHz / MHz
Indicates the frequency unit shown in the character display (**kHz** for AM, **MHz** for FM).

10 Character display

11
Lights when sleep timer is active (page 37).

12 ►
Lights during playback.

13 PL II
Lights during Dolby Pro Logic II decoding (page 14).

14 D
Lights during playback of a Dolby Digital source (page 14).

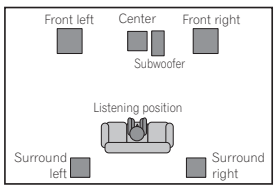
English

Chapter 2
Getting started

Home theater sound setup

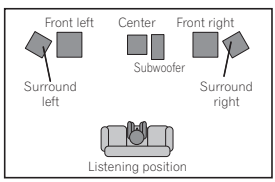
Place your speakers as shown below for optimal surround sound (see the Speaker Setup Guide for more placement tips).

- **Standard surround 5-spot setup** – This is a standard multichannel surround sound speaker setup for optimal 5.1 channel home theater sound.



XV-DV353 only: Depending on the size and characteristics of your room, you can choose to use the following setup option:[1]

- **Front surround 3-spot setup** – This setup is ideal when rear surround speaker placement isn't possible or you want to avoid running long speaker cables in your listening area. Use this setup together with the Front Surround modes to take advantage of wall and ceiling reflections for a very realistic surround effect.



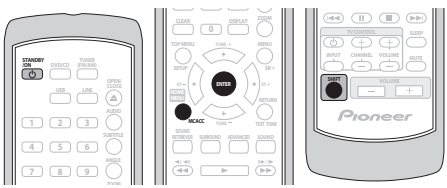
After placing your speakers, see *Using the Auto MCACC setup for optimal surround sound* below to complete your surround setup.

Using the Auto MCACC setup for optimal surround sound

The Multichannel Acoustic Calibration (MCACC) system measures the acoustic characteristics of your listening area, taking into account ambient noise and testing for channel delay and channel level. After you have set up the microphone provided with your system, the receiver uses the information from a series of test tones to optimize the speaker settings and equalization (Acoustic Calibration EQ) for your particular room.[2]

Important

- These test tones are loud; however, do not turn the volume down during setup as this may result in a sub-optimal calibration.
- Make sure the mic and speakers are not moved during the MCACC setup.

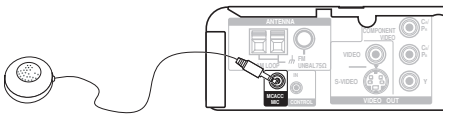


Note

1 See *Using Front Surround* on page 15 to select a front surround mode when using this setup.

2 You only need to use the Auto MCACC setup once (unless you change the placement of your speakers or your room layout).

1 Connect the microphone to the MCACC MIC jack on the rear panel.



The illustration shows the XV-DV353 model.

2 Place the microphone at your normal listening position.

Place it about ear height, and make sure it is level by using a table or chair.

Make sure there are no obstacles between the speakers and the microphone.

3 If the system is off, press ⏻ STANDBY/ON to turn the power on.

If the tuner is selected, switch the input source.

4 Press SHIFT+MCACC.

Try to be as quiet as possible after pressing **SHIFT+MCACC**. The volume increases automatically and the system outputs a series of test tones.

- Press **SHIFT+MCACC** to cancel and revert to the previous Auto MCACC settings.
- If the noise level is too high, **NOISY** blinks in the display for five seconds. To exit and check the noise levels[1], press **SHIFT+MCACC**, or to try again, press **ENTER** when **RETRY** shows in the display.
- If you see an **ERR MIC** or **ERR SP** message in the display, there may be a problem with your mic or the speaker connections. To try again, press **ENTER** when you see **RETRY**[2].

When the MCACC setup is complete, the volume level returns to normal and **COMPLETE**[3] shows in the display, indicating that the MCACC setup is complete and Acoustic Calibration EQ has been activated.[4]

Using the on-screen displays

For ease of use, this system makes extensive use of graphical on-screen displays (OSDs).

All the screens are navigated in basically the same way, using ⬆, ⬇, ⬅, ➡ to change the highlighted item and pressing **ENTER** to select it.[5]

Important

- Throughout this manual, 'Select' means use the cursor buttons to highlight an item on-screen, then press **ENTER**.

Button	What it does
HOME MENU	Displays/exits the on-screen display
⬅⬆⬇➡	Changes the highlighted menu item
ENTER	Selects the highlighted menu item
RETURN	Returns to the main menu without saving changes

Tip

- The button guide at the bottom of every OSD screen shows you which buttons you'll need to use for that screen.

Note

1 • If the room environment is not optimal for the Auto MCACC setup (too much ambient noise, echo off the walls, obstacles blocking the speakers from the microphone) the final settings may be incorrect. Check for household appliances (air conditioner, fridge, fan, etc.), that may be affecting the environment and switch them off if necessary.

• Some older TVs may interfere with the operation of the mic. If this seems to be happening, switch off the TV during the Auto MCACC setup.

2 If this doesn't work, press **SHIFT+MCACC**, turn off the power, and check the problem indicated by the **ERR** message, then try the Auto MCACC setup again.

3 If **COMPLETE** doesn't appear, it is likely an error occurred during the setup. Please check all connections and try again.

4 See *Listening with Acoustic Calibration EQ* on page 15 to switch on/off Acoustic Calibration EQ.

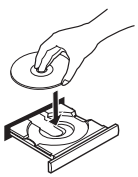
5 The screen saver will appear after five minutes of inactivity.

Playing discs

The basic playback controls for playing DVD, CD, Video CD/Super VCD, DivX video and WMA/MP3/MPEG-4 AAC discs are covered here. Further functions are detailed in chapter 4.

1 If the player isn't already on, switch it on.
If you're playing a disc with video, also turn on your TV and make sure that it is set to the correct video input.

2 Press ⏏ OPEN/CLOSE to load a disc.
Load a disc with the label side facing up, using the disc tray guide to align the disc (if you're loading a double-sided DVD disc, load it with the side you want to play face down).



3 Press ► (play) to start playback.
If you're playing a DVD or Video CD/Super VCD, a menu may appear. See *DVD-Video disc menus* and *Video CD/Super VCD PBC menus* on page 12 to navigate these.

If you loaded a disc containing JPEGs, a slideshow will start. See *Playing a JPEG slideshow* on page 17 for more on this.

- If a disc contains a mixture of DivX video and other media file types (MP3, for example), first select whether to play the DivX video files (**DivX**) or the other media file types (**MP3** / **WMA** / **JPEG** / **MPEG-4 AAC**) from the on-screen display.

4 Adjust the volume.
Use the **VOLUME** control.

Basic playback controls

The following table shows the basic controls on the remote for playing discs[1]. You can find other playback features in the chapter 4.

Button	What it does
►	Starts/resumes normal playback. • If the display shows **RESUME** or **LAST MEM** playback starts from the resume or last memory point (see *Resume and Last Memory* below).
❚❚	Pauses/unpauses a disc.
■	Stops playback or cancels the resume function (if the display shows **RESUME**).
◄◄	Press to start fast reverse scanning.
►►	Press to start fast forward scanning.
⏮	Skips to the start of the current track or chapter, then previous tracks/chapters.
⏭	Skips to the next track or chapter.
Numbers	Use to enter a title/chapter/track number. Press **ENTER** to select. • If the disc is stopped, playback starts from the selected title (for DVD) or track (for CD/Video CD/Super VCD). • If the disc is playing, playback jumps to the start of the selected title (VR mode DVD-RW), chapter (DVD-Video) or track (CD/Video CD/Super VCD).

Resume and Last Memory

When you stop playback of a disc, **RESUME** shows in the display indicating that you can resume playback from that point.
With DVDs and Video CD/Super VCDs, even if ejected, the play position is stored in memory.[2] The next time you load the disc, the display shows **LAST MEM** and you can resume playback.

Note
1 You may find with some DVD discs that some playback controls don't work in certain parts of the disc.
2 • The Last Memory function may not work with some discs.
• For DVD-Video discs (except VR mode DVD-R/RW), the player stores the play position of the last five discs.

If you want to clear the resume point, press ■ (stop) while **RESUME** is displayed.

DVD-Video disc menus

Many DVD-Video discs contain menus from which you can select what you want to watch.

Sometimes DVD-Video menus are displayed automatically when you start playback; others only appear when you press **MENU** or **TOP MENU**.

Button	What it does
TOP MENU	Displays the 'top menu' of a DVD disc—this varies with the disc.
MENU	Displays a DVD disc menu—this varies with the disc and may be the same as the 'top menu'.
⬅⬆⬇➡	Moves the cursor around the screen.
ENTER	Selects the current menu option.
RETURN	Returns to the previously displayed menu screen.
Numbers	Highlights a numbered menu option (some discs only). Press **ENTER** to select.

Video CD/Super VCD PBC menus

Some Video CD/Super VCDs have menus from which you can choose what you want to watch. These are PBC (Playback control) menus.

You can play a PBC Video CD/Super VCD without having to navigate the PBC menu by starting playback using a number button to select a track, rather than the ► (play) button.

Button	What it does
RETURN	Displays the PBC menu.
Numbers	Selects numbered menu options. Press **ENTER** to select.
⏮	Displays the previous menu page (if there is one).
⏭	Displays the next menu page (if there is one).

Listening to the radio

The tuner can receive both FM and AM broadcasts, and lets you memorize your favorite stations so you don't have to manually tune in every time you want to listen.

1 Press TUNER to switch to the tuner, then press repeatedly to select the AM or FM band.
The display shows the band and frequency.

2 Tune to a frequency.
There are three tuning modes—manual, auto, and high-speed:

- **Manual tuning**: Press **TUNE +/–** repeatedly to change the displayed frequency.
- **Auto tuning**: Press and hold **TUNE +/–** until the frequency display starts to move, then release. The tuner will stop on the next station it finds. Repeat to keep searching.
- **High-speed tuning**: Press and hold **TUNE +/–** until the frequency display starts to move rapidly. Keep the button held down until you reach the frequency you want. If necessary, fine tune the frequency using the manual tuning method.

Improving poor FM reception

If you're listening to an FM station in stereo but the reception is weak, you can improve the sound quality by switching to mono.

1 Tune to an FM radio station then press SHIFT+SETUP.

2 Use ⬅/➡ to choose FM MODE then press ENTER.

3 Use ⬆/⬇ to select FM MONO then press ENTER.
The mono indicator (○) lights when the tuner is in mono reception mode.

Select **FM AUTO** above to switch back to auto-stereo mode (the stereo indicator (∞) lights when receiving a stereo broadcast).

Reducing AM reception noise

If AM reception seems particularly poor, or the AM radio station you're listening to seems noisy, try using the Noise Cut feature for better sound quality.

1 Tune to an AM radio station then press SHIFT+SETUP.

2 Use ⬅/➡ to choose NOISECUT then press ENTER.

3 Use ⬆/⬇ to select the noise cut mode then press ENTER.
Select an effect level between 1 and 3.

Memorizing stations

You can save up to 30 station presets so that you always have easy access to your favorite stations without having to tune in manually each time.

1 Tune to an AM or FM radio station.
Select mono or auto-stereo reception (FM) or the Noise Cut mode (AM) as necessary. These settings are saved along with the preset.

2 Press SHIFT+SETUP and use ⬅/➡ to choose 'ST.MEM.' then press ENTER.

3 Use ⬆/⬇ to select the station preset you want then press ENTER.

Listening to station presets

1 Make sure the TUNER function is selected.

2 Use the ST +/– buttons to select a station preset.
- You can also use the number buttons to do this.

Listening to other sources

You can connect auxiliary sources (TV, satellite receiver, etc.) to this unit for playback through the speaker system. See *Connecting auxiliary audio components* on page 31 for more on this.

- To connect a USB device to the USB terminal, see *USB playback* on page 23.

1 Make sure that the external source (TV, satellite receiver, etc.) is switched on.

2 Press LINE to select the source.

3 If necessary, start playback of the source.

Chapter 3
Listening to your system

Auto listening mode

The Auto listening mode is the simplest way to listen to any source as it was mastered: the output from the speakers mirrors the channels in the source material.

- See *Using Front Surround* below to get the best results from a Front surround 3-spot setup (page 9).

- **Press SURROUND to select the AUTO listening mode.**[1]

Listening in surround sound

You can listen to stereo or multichannel sources in surround sound.[2] Surround sound is generated from stereo sources using one of the Dolby Pro Logic decoding modes.

- See *Using Front Surround* below to get the best results from a Front surround 3-spot setup (page 9).

- **Press SURROUND repeatedly to select a listening mode.**[1]

The choices that appear in the display will vary according to the type of source that's playing.

- **AUTO** – Auto listening mode (see above)
- **DOLBY PL** (Dolby Pro Logic) – 4.1 channel surround sound (use with any two-channel source)
- **MOVIE** (Dolby Pro Logic II Movie) – Pro Logic II 5.1 channel surround sound, especially suited to movie sources (use with any two-channel source)
- **MUSIC** (Dolby Pro Logic II Music) – Pro Logic II 5.1 channel surround sound, especially suited to music sources (use with any two-channel source)
- **STEREO** – See *Listening in stereo* below

Dolby Pro Logic II Music settings

When listening in Dolby Pro Logic II Music mode, there are three settings you can adjust: Center Width, Dimension, and Panorama.

1 With Dolby Pro Logic II Music mode active, press SOUND.

2 Use ⬅/➡ to select 'C WIDTH', 'DIMEN.' or 'PANORAMA' then press ENTER to confirm.

- **C WIDTH** (Center Width): Provides a better blend of the front speakers by spreading the center channel between the front right and left speakers, making it sound wider (higher settings) or narrower (lower settings).
- **DIMEN.** (Dimension): Adjusts the depth of the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings).
- **PANORAMA** – Extends the front stereo image to include the surround speakers for a 'wraparound' effect.

Note

1 If the source is Dolby Digital or DTS, the corresponding indicator lights in the front panel display.
2 Note that when the tuner is selected, multichannel playback is not possible.

Using Front Surround

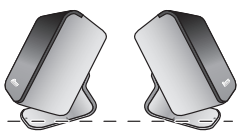
XV-DV353 only

The Front Surround mode is effective when you are using the Front surround 3-spot speaker setup as described in *Home theater sound setup* on page 9. The surround speakers should be placed beside the front speakers and oriented either towards the walls, or straight ahead, depending on which mode you are using (see below).

- **Press ADVANCED to select a Front Surround mode.**

Press repeatedly to select **FRTMOVIE**, **FRTMUSIC** or **EXTPOWER**.[1]

- If you have selected **FRTMOVIE** (Front Surround Movie) or **FRTMUSIC** (Front Surround Music), turn each surround speaker so that the guide markers on the stand base are lined up horizontally in the direction the listening position (see below). With **EXTPOWER** (Extra Power), the surround speakers should be oriented in the same direction as the front speakers.



Front Music / Front Movie

Extra Power

Using Advanced Surround

The Advanced Surround effects can be used with any multichannel or stereo source for a variety of additional surround sound effects.[1]

- See *Using Front Surround* above to get the best results from a Front surround 3-spot setup (page 9).

- **Press ADVANCED to select an Advanced Surround mode.**

Press repeatedly to select **ADVMOVIE**, **ADVMUSIC**, **EXPANDED**, **TV SURR.**, **SPORTS**, **GAME**, **VIRTUAL** or **5 STEREO**.

Listening in stereo

You can listen to any source—stereo or multichannel—in stereo. When playing a multichannel source, all channels are downmixed to the front left/right speakers and the subwoofer.

- **Press SURROUND repeatedly until STEREO shows in the display.**

Listening with headphones

When headphones are connected, only the **STEREO** (default) and **PHONES SURROUND** (virtual surround sound for headphones) modes are available.

- **With headphones connected, press ADVANCED to select PHONES SURROUND or SURROUND to select STEREO**.

Listening with Acoustic Calibration EQ

You can listen to sources using the Acoustic Calibration Equalization set in *Using the Auto MCACC setup for optimal surround sound* on page 9.[2]

Note

1 Note that when the tuner is selected, multichannel playback is not possible.

2 Acoustic Calibration EQ is not available when headphones are connected.

1 Press SOUND and use ⬅/➡ to select MCACC EQ then press ENTER.

2 Use ⬆/⬇ to select EQ ON or EQ OFF then press ENTER to confirm.

- If you select **EQ OFF**, equalization is set to off but speaker settings (channel delay and channel level) remain in effect.
- **EQ ON** is selected automatically after the Auto MCACC setup is completed.

Using the Sound Retriever

When audio data is removed during the WMA/MP3/MPEG-4 AAC compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.

- **While listening to a stereo source, press SOUND RETRIEVER to switch the sound retriever on or off.**

Enhancing dialog

The Dialog Enhancement feature is designed to make the dialog stand out from other background sounds in a TV or movie soundtrack.

1 Press SOUND and use ⬅/➡ to select DIALOGUE then press ENTER.

2 Use ⬆/⬇ to select the amount of dialog enhancement then press ENTER to confirm.
Select between **OFF**, **MID** or **MAX**.

Using the Tone controls

You can change the tonal balance of the sound by using the tone control menu.

1 Press SOUND and use ⬅/➡ to select TONE then press ENTER.

2 Use ⬆/⬇ to select the option you want to adjust and press ENTER.
The Bass/Treble, Quiet and Midnight features cannot be used at the same time.

Adjusting the bass and treble

Use the tone controls to adjust the bass and treble.

- **Use ⬅/➡ to select BASS or TREBLE then use ⬆/⬇ to adjust the tone. Press ENTER to confirm.**

Quiet and Midnight modes

The Quiet listening feature reduces excessive bass or treble in a sound source.

The Midnight listening feature allows you to hear effective surround sound of movies at low volume levels.

- **After pressing ENTER, the setting switches on/off.**
  - To cancel the Quiet or Midnight listening modes, select **BASS/TRE**.

Boosting the bass level

There are two bass modes you can use to enhance the bass in a source.[1]

1 Press SOUND and use ⬅/➡ to select BASSMODE then press ENTER.

2 Use ⬆/⬇ to adjust the sound then press ENTER to confirm.
Select between **OFF**, **MUSIC** or **CINEMA**.

Note

1 The Bass Mode is not available when headphones are connected.

English

Chapter 4

Disc playback features

Important

- Many of the functions covered in this chapter apply to DVD discs, Video CDs/ Super VCDs, CDs, DivX video and WMA/ MP3/MPEG-4 AAC/JPEG discs, although the exact operation of some varies slightly with the kind of disc loaded.
- Some DVDs restrict the use of some functions (random or repeat, for example) in some or all parts of the disc. This is not a malfunction.
- When playing Video CD/Super VCDs, some of the functions are not available during PBC playback. If you want to use them, start the disc playing using a number button to select a track.

Scanning discs

You can fast-scan discs forward or backward at various different speeds.[1]

• During playback, press ◄◄ or ►► to start scanning.
Press repeatedly to increase the scanning speed (shown on-screen).

- To resume playback, press ► (play).[2]

Playing in slow motion

You can play DVDs, Video CD/Super VCDs and DivX video at four different forward slow motion speeds. DVD discs can also be played in reverse slow motion.

1 During playback, press II (pause).

2 Press and hold ◄I/◄II or II►/I► until slow motion playback starts.
Press repeatedly to change the slow motion speed (shown on-screen).

- To resume playback, press ► (play).[2]

Frame advance/frame reverse

You can advance or back up DVD discs frame-by-frame. With Video CD/Super VCDs and DivX video you can only use frame advance.

1 During playback, press II (pause).

2 Press ◄I/◄II or II►/I► to reverse or advance a frame at a time.

- To resume playback, press ► (play).[2]

Playing a JPEG slideshow

After loading a disc containing JPEG pictures, press ► to start a slideshow from the first folder/picture on the disc.[3] The player displays the pictures in each folder in alphabetical order.

- If the disc contains WMA/MP3/MPEG-4 AAC files, playback of the slideshow and audio files repeats. During audio playback, you can still use the skip (I◄◄/►►I), scan (◄◄/►►) and pause (II) functions.

Pictures are automatically adjusted so that they fill as much of the screen as possible.

Note

1 Only one speed is available for DivX video discs.

2 • Depending on the disc, normal playback may automatically resume when a new chapter is reached on a DVD disc.
• With Video CD/Super VCDs in PBC mode or a WMA/MP3/MPEG-4 AAC track, playback automatically resumes at the end or beginning of the track.

3 • The time it takes for the player to load a file increases with large file sizes.
• Discs can contain up to 299 folders and up to 648 folders and files combined.

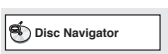
While the slideshow is running:

Button	What it does
II	Pauses the slideshow (or audio); press again to restart.
I◄◄	Jumps to the previous picture (or audio file with audio playback).
►►I	Jumps to the next picture (or audio file with audio playback).
←/→/↑/↓	Pauses the slideshow and rotates/flips the displayed picture (Press ► (play) to restart slideshow).
ZOOM	Pauses the slideshow and zooms the picture. Press again to toggle between 1x, 2x and 4x zoom (Press ► (play) to restart slideshow).
MENU	Displays the Disc Navigator screen (see below).

Browsing DVD or Video CD/ Super VCD discs with the Disc Navigator

Use the Disc Navigator to browse through the contents of a DVD or Video CD/Super VCD disc to find the part you want to play.

1 During playback, press HOME MENU and select 'Disc Navigator' from the on-screen menu.



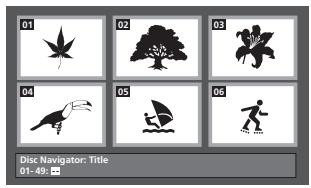
2 Select a view option.

The options available depend on the kind of disc loaded and whether the disc is playing or not, but include:

- **Title** – Titles from a DVD-Video disc.
- **Chapter** – Chapters from the current title of a DVD-Video disc.
- **Track** – Tracks from a Video CD/Super VCD disc.
- **Time** – Thumbnails from a Video CD/Super VCD disc at 10 minute intervals.
- **Original: Title** – Original titles from a VR mode DVD-RW disc.
- **Playlist: Title** – Playlist titles from a VR mode DVD-RW disc.
- **Original: Time** – Thumbnails from the Original content at 10 minute intervals.
- **Playlist: Time** – Thumbnails from the Playlist at 10 minute intervals.

The screen shows up to six moving thumbnail images displayed one after another. To display the previous/next six thumbnails, press I◄◄/►►I.

3 Select the thumbnail image for what you want to play.



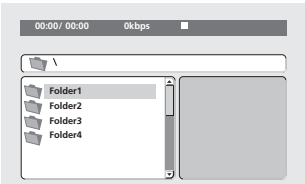
You can use either ↑/↓/←/→ and **ENTER** to select a thumbnail, or the number buttons.

To select using the number buttons, enter a two-digit number then press **ENTER**.

Browsing WMA, MP3, MPEG-4 AAC, DivX video and JPEG files with the Disc Navigator

Use the Disc Navigator to find a particular file or folder by filename.

1 Press HOME MENU and select 'Disc Navigator' from the on-screen menu.

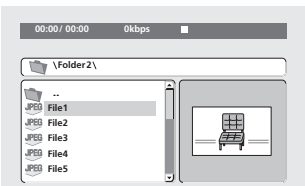


2 Use ↑/↓/←/→ and ENTER to navigate.
Use ↑/↓ to move up and down the folder/file list.

Use ← to return to the parent folder.[1]

Use **ENTER** or → to open a highlighted folder.

- When a JPEG file is highlighted, a thumbnail image is displayed on the right.



3 To play the highlighted track or DivX video file or display the highlighted JPEG file, press ENTER.

- When a WMA/MP3/MPEG-4 AAC or DivX video file is selected, playback begins from that file, and continues until the end of the folder.
- When a JPEG file is selected, a slideshow begins, starting with that file, and continues to the end of the folder.

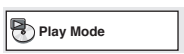
Tip

- You can also play a JPEG slideshow while listening to WMA/MP3/MPEG-4 AAC playback. Simply select the audio file you want to listen to followed by the JPEG from which you want the slideshow to start. Playback of both the slideshow and the audio files repeats. Playback controls are effective for the JPEG slideshow only.
- To play the contents of the whole disc rather than just the current folder, exit the Disc Navigator and start playback using the ► (play) button.

Looping a section of a disc

The A-B Repeat function allows you to specify two points (A and B) within a track (CD, Video CD/Super Video CD) or title (DVD) that form a loop which is played over and over.

1 During playback, press HOME MENU and select 'Play Mode'.



2 Select 'A-B Repeat'.

3 Press ENTER on 'A(Start Point)' to set the loop start point.

4 Press ENTER on 'B(End Point)' to set the loop end point.
After pressing **ENTER**, playback jumps back to the start point and plays the loop.

5 To resume normal playback, select 'Off'.

Using repeat play

In addition to various repeat play options, it's also possible to use repeat play together with program play (see *Creating a program list* on page 20).

Note

1 You can also do this by going to the '**..**' folder at the top, then pressing **ENTER**.

1 During playback, press HOME MENU and select 'Play Mode'.

2 Select 'Repeat' then select a repeat play option.[1]

If program play is active, select **Program Repeat** to repeat the program list, or **Repeat Off** to cancel.

- For DVD discs, select **Title Repeat** or **Chapter Repeat**.
- For CDs and Video CD/Super VCDs, select **Disc Repeat** or **Track Repeat**.
- For DivX video discs, select **Title Repeat** (or **Repeat Off**).

Using random play

Use this function to play titles or chapters (DVD-Video) or tracks (CD and Video CD/Super VCD) in a random order.[2]

1 During playback, press HOME MENU and select 'Play Mode'.

2 Select 'Random' then select an option.

- For DVD discs, select **Random Title** or **Random Chapter**.
- For CDs and Video CD/Super VCDs, select **On** or **Off** to switch random play on or off.

Tip

- Use the following controls during random play:

Button	What it does
⏭	Selects a new track/title/chapter at random.
⏮	Returns to the beginning of the current track/title/chapter; further presses select another random track/title/chapter.

- Random play remains in effect until you select **Random Off** from the random play menu options.

Creating a program list

This feature lets you program the play order of titles/chapters/tracks on a disc.[3]

1 During playback, press HOME MENU and select 'Play Mode'.

2 Select 'Program' then select 'Create/Edit' from the list of program options.

3 Use ↑/↓/←/→ and ENTER to select a title, chapter or track for the current step in the program list.

For a DVD disc, you can add a title or a chapter.

- For a CD or Video CD/Super VCD, select a track to add to the program list.

After pressing **ENTER** to select the title/chapter/track, the step number automatically moves down one.

4 Repeat step 3 to build up a program list.

A program list can contain up to 24 steps.

- You can insert steps by just highlighting the position where you want the new step to appear and entering a title/chapter/track number.
- To delete a step, highlight it and press **CLEAR**.

Note

1 You can't use repeat play with WMA/MP3/MPEG-4 AAC discs.

2 • You can set the random play option when a disc is playing or stopped. However, you can't use random play together with program play.

• You can't use random play with VR format DVD-R/RW discs, WMA/MP3/MPEG-4 AAC discs, DivX video discs, or while a DVD disc menu is being displayed.

3 You can't use Program play with VR format DVD-R/RW discs, WMA/MP3/MPEG-4 AAC discs, DivX video discs, or while a DVD disc menu is being displayed.

5 To play the program list, press ► (play).
Program play remains active until you turn off program play (see below), erase the program list (see below), eject the disc or switch off.

Tip

- Use the following controls during program play:

Button	What it does
HOME MENU	Save the program list and exit without starting playback.
►►I	Skip to the next step in the program list.

Other functions available from the program menu

There are a number of other options in the program menu in addition to Create/Edit.

- **Playback Start** – Starts playback of a saved program list
- **Playback Stop** – Turns off program play, but does not erase the program list
- **Program Delete** – Erases the program list and turns off program play

Searching a disc

You can search DVD discs by title or chapter number, or by time; CDs and Video CD/Super VCDs by track number or time; DivX video discs by time.

1 Press HOME MENU and select 'Play Mode'.

2 Select 'Search Mode'.
The search options that appear depend on the kind of disc loaded.

3 Select a search mode.
- The disc must be playing in order to use time search.

4 Use the number buttons to enter a title, chapter or track number, or a time.
- For a time search, enter the number of minutes and seconds into the currently playing title (DVD/ DivX video) or track (CD/ Video CD/Super VCD) you want playback to resume from. For example, press **4**, **5**, **0**, **0** to have playback start from 45 minutes into the disc. For 1 hour, 20 minutes and 30 seconds, press **8**, **0**, **3**, **0**.

5 Press ENTER to start playback.

Switching subtitles

Some DVD discs and DivX video discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available. You can switch subtitle language during playback.[1]

- **Press SUBTITLE repeatedly to select a subtitle option.**
  - To set subtitle preferences, see *Language settings* on page 28.
  - See *Displaying DivX subtitle files* on page 39 for more on DivX subtitles.

Switching language / audio channels

When playing discs recorded with dialog in two or more languages, or with dual-mono audio[2] you can switch these during playback.[3]

- **Press AUDIO repeatedly to select an audio language option.**
  - To set audio language preferences, see *Language settings* on page 28.

Note

1 Some discs only allow you to change subtitle language from the disc menu. Press **TOP MENU** or **MENU** to access.
2 Some Super VCDs have two soundtracks. With these discs you can switch between the two soundtracks as well as individual channels in each.
3 Some discs only allow you to change audio language from the disc menu. Press **TOP MENU** or **MENU** to access.

Zooming the screen

Using the zoom feature you can magnify a part of the screen by a factor of 2 or 4, while watching a DVD, DivX video title or Video CD/ Super VCD or playing a JPEG disc.

1 During playback, use the ZOOM button to select the zoom factor (Normal, 2x or 4x).

2 Use ⬆/⬇/⬅/➡ to change the zoomed area.

You can change the zoom factor and the zoomed area freely during playback.[1]

Switching camera angles

Some DVD discs feature scenes shot from two or more angles—check the disc box for details.

When a multi-angle scene is playing, a icon appears on screen (this can be switched off if you prefer—see *Display settings* on page 28).

- **During playback (or when paused), press ANGLE to switch angle.**

Displaying disc information

Various track, chapter and title information can be displayed on-screen during playback.

- **To show/switch/hide the information displayed, press DISPLAY repeatedly.**

Limited disc information also appears in the front panel display. Press **DISPLAY** to change the displayed information.

Note

1 • Since DVD, Video CD/Super VCD, DivX video title and JPEG pictures have a fixed resolution, picture quality will deteriorate, especially at 4x zoom. This is not a malfunction.

• If the navigation square at the top of the screen disappears, press **ZOOM** again to display it.

English

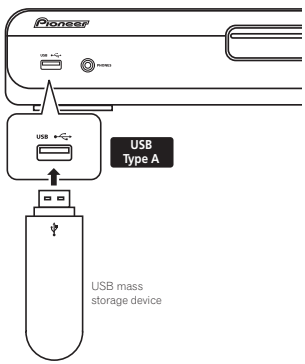
Chapter 5
USB playback

Using the USB interface

It is possible to listen to two-channel audio[1] and watch JPEG files using the USB interface on the front of this unit. Connect a USB mass storage device[2] as shown below.

1 With the player switched on, press USB.
Make sure your TV is on and set to the correct video input.

2 Connect your USB device.
The USB terminal is located on the front panel.



3 Press ► (play) to start playback.
If your USB device contains JPEGs, a slideshow will start. See *Playing a JPEG slideshow* on page 24 for more on this.

- Make sure **USB DATA** is showing in the front panel display (or the system is in standby) when disconnecting.

Important

If a **USB ERR** message lights in the display, it may mean that the power requirements of the USB device are too high for this player, or that the device is incompatible. Try the following:

- Switch the player off, then on again.
- Reconnecting the USB device with the player switched off.
- Selecting to another input source (like **DVD/CD**), then back to **USB**.
- Using a dedicated AC adapter (supplied with the device) for USB power.

If this doesn't remedy the problem, it is likely your USB device is incompatible.

Basic playback controls

The following table shows the basic controls on the remote for USB playback.

Button	What it does
►	Starts normal playback.
II	Pauses/unpauses playback.
■	Stops playback.
◄◄	Press to start fast reverse scanning.
►►	Press to start fast forward scanning.
I◄◄	Skips to the start of the current file, then previous files.
►►I	Skips to the next file.

Note

1 This includes playback of WMA/MP3/MPEG-4 AAC files (except files with copy-protection or restricted playback). It is not possible to play DivX files through the USB terminal.

2 • Compatible USB devices include external magnetic hard drives, portable flash memory (particularly keydrives) and digital audio players (MP3 players) of format FAT16/32. It is not possible to connect this unit to a personal computer for USB playback.

• Pioneer cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assumes no responsibility for any loss of data that may occur when connected to this unit.

• With large amounts of data, it may take longer for the system to read the contents of a USB device.

Scanning files

You can fast-scan forward or backward at various different speeds.

- **During playback, press ◄◄ or ►►.**

Press repeatedly to increase the scanning speed (shown on-screen).

- To resume playback, press ► (play).[1]

Playing a JPEG slideshow

Press ► to start a slideshow from the first folder/picture.[2] The pictures in each folder are displayed in order.

- If the device contains WMA/MP3/MPEG-4 AAC files, playback of the slideshow and audio files repeats. During audio playback, you can still use the skip (I◄◄/►►I), scan (◄◄/►►) and pause (II) functions.

Pictures are automatically adjusted so that they fill as much of the screen as possible.

While the slideshow is running:

Button	What it does
II	Pauses the slideshow (or audio); press again to restart.
I◄◄	Jumps to the previous picture (or audio file with audio playback).
►►I	Jumps to the next picture (or audio file with audio playback).
←/→/↑/↓	Pauses the slideshow and rotates/flips the current picture (Press ► to restart slideshow).
ZOOM	Pauses the slideshow and zooms the picture. Press again to toggle between 1x, 2x and 4x zoom (Press ► to restart slideshow).
MENU	Displays the Navigator screen (see below).

Browsing files with the Navigator

Use the Navigator to find WMA, MP3, MPEG-4 AAC and JPEG files or folders by name.[3]

1 Press MENU then use ↑/↓/←/→ and ENTER to navigate.

Use ↑/↓ to move up/down the folder/file list.

Use ← to return to the parent folder.[4]

Use **ENTER** or → to open a highlighted folder.

- When a JPEG file is highlighted, a thumbnail image is displayed on the right.

2 To play the highlighted track or display the highlighted JPEG file, press ENTER.

- When a WMA/MP3/MPEG-4 AAC file is selected, playback begins from that file, and continues until the end of the folder.
- When a JPEG file is selected, a slideshow begins, starting with that file, and continues to the end of the folder.

Tip

- You can also play a JPEG slideshow while listening to WMA/MP3/MPEG-4 AAC playback. Simply select the audio file you want to listen to followed by the JPEG from which you want the slideshow to start. Playback of both the slideshow and the audio files repeats. Playback controls are effective for the JPEG slideshow only.
- To play all of the contents, rather than just the current folder, exit the Navigator and start playback using the ► (play) button.

Note

1 With WMA/MP3/MPEG-4 AAC tracks, playback automatically resumes at the end or beginning of the track.

2 • The time it takes for the player to load a file increases with large file sizes.
• USB devices can contain up to 299 folders and up to 648 folders and files combined.

3 Filenames may be displayed incorrectly with some digital audio players.

4 You can also do this by going to the '**..**' folder at the top, then pressing **ENTER**.

English

Chapter 6
Surround sound settings

Using the Setup menu

From the Setup menu you can access all the surround sound settings of the system[1], including channel levels, speaker distances and dynamic range adjustment. The Auto MCACC feature (page 9) should give you the best surround sound setup. However you may find that by further adjustment of the surround sound settings you can improve the surround sound in your listening room.

1 Press SHIFT+SETUP and use ⬅/➡ then ENTER to choose the setting you want to adjust.

The available settings are shown in the front panel display.[2]

2 Use ⬆/⬇ to adjust then press ENTER to confirm and exit.

- Note that using the Auto MCACC (page 9) again overwrites the speaker settings.

Channel level setting

Set the relative channel levels from your main listening position.[3]

Use ⬅/➡ to switch between channels in the following order:

- **L** – Front left speaker
- **C** – Center speaker
- **R** – Front right speaker
- **SR** – Surround right speaker
- **SL** – Surround left speaker
- **SW** – Subwoofer

The channel level range is ± 10 dB.

Speaker distance setting

Specifies the distance from your listening position to your speakers.

When **DISTANCE** appears, press **ENTER**, then use ⬆/⬇ to adjust the distance, and ⬅/➡ to switch between the following speakers:

- **L** – Front left speaker
- **C** – Center speaker
- **R** – Front right speaker
- **SR** – Surround right speaker
- **SL** – Surround left speaker
- **SW** – Subwoofer

Each speaker can be adjusted between **0.3 m** and **9.0 m**. The default setting is **3.0 m**.

Dynamic Range Control

Specifies dynamic range adjustment to Dolby Digital or some DTS soundtracks. If low level sound or dialog seem difficult to hear properly, this can help by bringing up the low level sounds, while controlling high level peaks.

- **DRC OFF** *(default)* – No dynamic range adjustment (use when listening at higher volumes)
- **DRC MID** – Mid setting
- **DRC HIGH** – Dynamic range is reduced (loud sounds are reduced in volume while quieter sounds are increased)

Note

1 There are other settings you can adjust from the Setup menu; these are explained in *Improving poor FM reception* on page 12 and *Dimming the display* on page 37.

2 The setup menu is exited automatically after 5 minutes of inactivity.

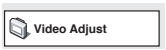
3 • You can't adjust center/surround when Stereo or Virtual playback is selected (or with stereo sources using the Auto mode).
• The Channel level setting is not available when headphones are connected.
• The speaker volume can be adjusted at any time by pressing **SHIFT+TEST TONE** and then using ⬆/⬇ to adjust the channel levels. The test tone automatically moves from speaker to speaker in the order listed above. You should hear the test tone at the same volume from each speaker when seated in the main listening position. Press **ENTER** when you're finished.
• Since the subwoofer produces ultra-low frequencies it may seem quieter than it actually is.

Chapter 7
Video Adjust menu

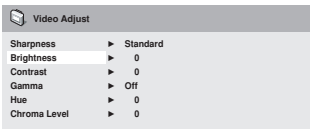
Video Adjust menu

From the Video Adjust screen you can adjust settings that affect picture presentation.

1 Press HOME MENU and select 'Video Adjust' from the on-screen display.



2 Make settings using ⬆/⬇/⬅/➡ and ENTER.



You can adjust the following settings:

- **Sharpness** – Adjusts the sharpness of edges in the picture (**Fine**, **Standard**, **Soft**)
- **Brightness** – Adjusts the overall brightness (**–20** to **+20**)
- **Contrast** – Adjusts the contrast between light and dark (**–16** to **+16**)
- **Gamma** – Adjusts the 'warmth' of the picture (**High**, **Medium**, **Low**, **Off**)
- **Hue** – Adjusts the red/green balance (**Green 9** to **Red 9**)
- **Chroma Level** – Adjusts how saturated colors appear (**–9** to **+9**)

Adjust the Brightness, Contrast, Hue and Chroma Level settings using ⬅/➡.

3 Press ENTER to return to the Video Adjust screen, or HOME MENU to exit.

English

Chapter 8
Initial Settings menu

Using the Initial Settings menu

The Initial Settings menu provides audio and video output settings, parental lock settings, and display settings, among others.

If an option is grayed out it means that it cannot be changed at the current time. This is usually because a disc is playing. Stop the disc, then change the setting.

1 Press DVD/CD.

2 With playback stopped, press HOME MENU and select 'Initial Settings'.

3 Use ⬆/⬇/⬅/➡ and ENTER to select the setting and option you want to set.

All the settings and options are explained on the following pages.[1]

Video Output settings

Setting	Option	What it means
TV Screen (See also *Screen sizes and disc formats* on page 41.)	**4:3 (Letter Box)**	Set if you have a conventional 4:3 TV. Widescreen movies are shown with black bars top and bottom.
	4:3 (Pan & Scan)	Set if you have a conventional 4:3 TV. Widescreen movies are shown with the sides cropped so that the image fills the screen.
	16:9 (Wide)	Set if you have a widescreen TV.
Component Out (See also *Connecting using the component video output* on page 32.)	**Interlace**	Set if your TV is not compatible with progressive scan video.
	Progressive	Set if your TV is compatible with progressive scan video (see your TV's instruction manual for details). Press **ENTER** once more to confirm (or **RETURN** to cancel). *Note that progressive scan video is only output from the component video jacks.*
HDMI Resolution *XV-DV656 only* (See *Connecting using HDMI* on page 34.) ***** *Default changes with TV format (PAL/NTSC).*	*1920x1080i*	Set if your TV supports 1920 x 1080 pixel interlace video.
	1280x720p	Set if your TV supports 1280 x 720 pixel progressive-scan video.
	720x480p (NTSC) / 720x576p (PAL)	Set if your TV supports 720 x 480 (NTSC) / 720 x 576 (PAL) pixel progressive-scan video.
	720x480i (NTSC) / 720x576i (PAL)	Set if your TV supports 720 x 480 (NTSC) / 720 x 576 (PAL) pixel interlace video.

Note

1 • In the table, the default setting is shown in **bold**: other settings are shown in *italics*.
• Some settings, such as **TV Screen**, **Audio Language** and **Subtitle Language** may be overridden by the DVD disc. Often these settings can also be made from the DVD disc menu.

Setting	Option	What it means
HDMI Color *XV-DV656 only* (See *Connecting using HDMI* on page 34) ***** *Default changes depending on device connected.*	*Full range RGB*	If colors are weak, this gives brighter colors and deeper black (default setting for HDMI-compatible DVI devices).
	RGB	Use this setting if colors appear overly rich on the Full Range RGB setting.
	Component	Outputs 8-bit component video format (default setting for HDMI-compatible devices).

Language settings

Setting	Option	What it means
Audio Language	**English**	If there is an English soundtrack on the disc, it is played.
	Languages as displayed	If there is a language selected on the disc, it is played.
	Other Language	Select to choose a language other than the ones displayed (see *Using the language code list* on page 46).
Subtitle Language	**English**	If there are English subtitles on the disc they are displayed.
	Languages as displayed	The subtitle language selected on the disc is displayed.
	Other Language	Select to choose a language other than the ones displayed (see *Using the language code list* on page 46).
DVD Menu Language	**w/Subtitle Lang.**	DVD disc menus are displayed in the same language as your selected subtitle language, if possible.
	Languages as displayed	DVD menus are displayed in the selected language, if possible.
	Other Language	Select to choose a language other than the ones displayed (see *Using the language code list* on page 46).
Subtitle Display	**On**	Subtitles are displayed in your selected subtitle language.
	Off	Subtitles are always off by default when you play a DVD disc.

Display settings

Setting	Option	What it means
OSD Language	**English**	On-screen displays of the player are in English.
	Languages as displayed	On-screen displays are shown in the language selected.
Angle Indicator	**On**	A camera icon is displayed on-screen during multi-angle scenes on a DVD disc.
	Off	No multi-angle indication is shown.

Options settings

Setting	Option	What it means
Parental Lock	–	See *Parental Lock* below.
DivX(R) VOD	**Display**	See *About DivX® VOD content* below.

Parental Lock

- Default level: **Off**; Default password: *none*; Default Country/Area code: **us (2119)**

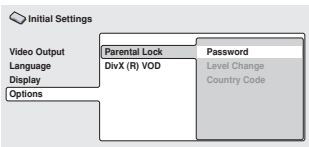
To give you some control over what your children watch on your DVD player, some DVD-Video discs feature a Parental Lock level. If your player is set to a lower level than the disc, the disc won't play.

Some discs also support the Country/Area Code feature. The player does not play certain scenes on these discs, depending on the Country/Area Code you set.

Registering a new password

Register a password to change the Parental Lock level or enter a Country/Area code.[1]

1 Select 'Password'.



2 Use the number buttons to input a 4-digit password then press ENTER.

Changing your password

To change your password, confirm your existing password then enter a new one.

1 Select 'Password Change', input your existing password, then press ENTER.

2 Enter a new password and press ENTER.

Setting/changing the Parental Lock

1 Select 'Level Change'.

2 Use number buttons to enter your password, then press ENTER.

3 Select a new level and press ENTER.

- Press ⬅ repeatedly to lock more levels (more discs will require the password); press ➡ to unlock levels. You can't lock level 1.

Setting/changing the Country/Area code

You can find the *Country/Area code list* on page 47.

1 Select 'Country Code', input your password, then press ENTER.

2 Select a Country/Area code then press ENTER.

There are two ways you can do this:

- Select by code letter: Use ⬆/⬇ to change the Country/Area code.
- Select by code number: Press ➡ then use the number buttons to enter the 4-digit Country/Area code.

The new Country/Area code takes effect after ejecting the disc once.

Note

1 • Not all discs use Parental Lock, and will play without requiring the password first.
• If you forget your password, you'll need to reset the player to register a new password (see *Resetting the system* on page 46).

About DivX® VOD content

In order to play DivX VOD (video on demand) content on this player, you first need to register the player with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.[1]

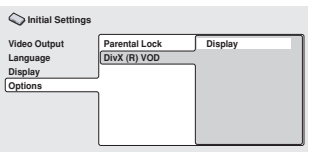
Important

- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.
- If you load a disc that contains DivX VOD content not authorized for your player, the message **Authorization Error** is displayed and the content will not play.

Displaying your DivX VOD registration code

1 Press HOME MENU and select 'Initial Settings'.

2 Select 'Options', then 'DivX (R) VOD'.



3 Select 'Display'.

Your 8-digit registration code is displayed.

Make a note of the code as you will need it when you register with a DivX VOD provider.

Playing DivX® VOD content

Some DivX VOD content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), the message **Rental Expired** is displayed.

If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.

Note

1 Resetting the player (as described in *Resetting the system* on page 46) will not cause you to lose your registration code.

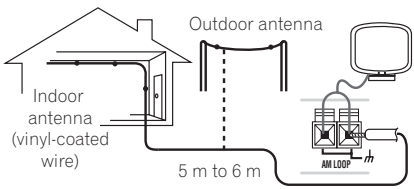
English

Chapter 9

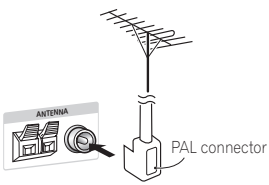
Other connections

Connecting external antennas

For an external AM antenna, use 5 m to 6 m of vinyl-insulated wire and set up either indoors or outdoors. Leave the loop antenna connected.

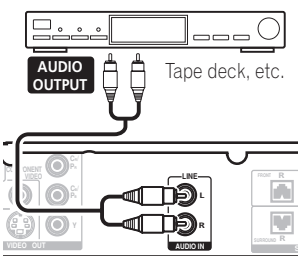


For an external FM antenna, use a PAL connector to hook up an external FM antenna.



Connecting auxiliary audio components

Using the stereo analog inputs, you can connect an external component such as a tape deck or MD player for playback through this system.



- **Connect the LINE AUDIO IN jacks to the analog outputs of an external playback component.**

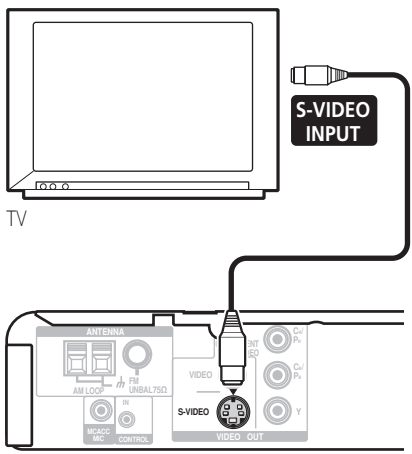
Connect using RCA pin-plug stereo cables.

Connecting the S-video output

If your TV has an S-video input, you can use this instead of the standard video output for a better quality picture.

- **Use an S-video cable to connect the S-VIDEO OUT to an S-video input on your TV.**

Line up the small triangle above the jack with the same mark on the plug before plugging in.

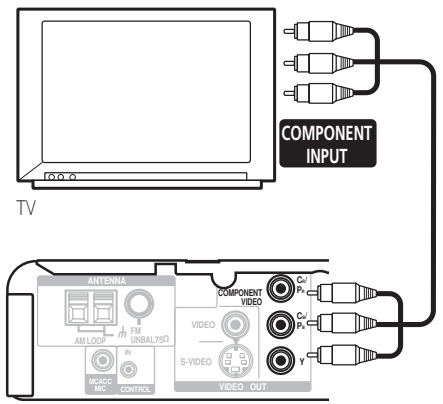


The illustration shows the XV-DV353 model.

Connecting using the component video output

If your TV has component video inputs, you can use these instead of the standard video output to connect this system to your TV.[1] This should give you the best quality picture from the three types of video output available.

- **Use a component video cable to connect the COMPONENT VIDEO OUT to a set of component inputs on your TV.**



The illustration shows the XV-DV353 model.

About progressive scan video

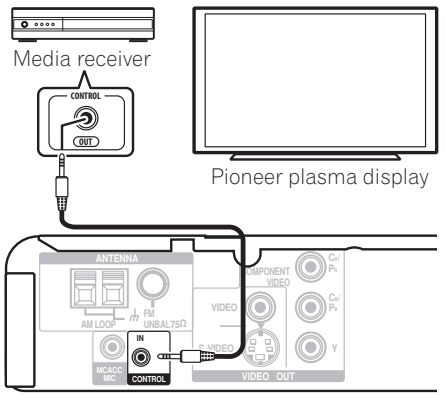
Compared to interlace video, progressive scan video effectively doubles the scanning rate of the picture, resulting in a very stable, flicker-free image. Progressive scan video is available only from the component video output.

Compatibility of this player with progressive-scan and high-definition TVs

This player is compatible with progressive video Macro Vision System Copy Guard.[2]

Using this unit with a Pioneer plasma display

If you have a Pioneer plasma display[3], you can use an SR+ cable[4] to connect it to this unit and take advantage of various convenient features, such as controlling this unit via the plasma display's remote sensor, automatic video input switching of the plasma display, and automatic volume muting on the plasma display.



The illustration shows the XV-DV353 model.

Note

1 The component video output is switchable between interlaced and progressive formats. See *Video Output settings* on page 27.
2 Consumers should note that not all high-definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output (Interlace). If there are questions regarding our TV set compatibility with this model, please contact our customer service center.
3 This system is compatible with all Pioneer plasma displays from 2003 onward.
4 The 3-ringed SR+ cable from Pioneer is commercially available under the part number ADE7095. Contact the Pioneer Customer Support division for more information on obtaining an SR+ cable.

Important

- With an SR+ cable connected, the remote must now be pointed towards your plasma display rather than the remote sensor of this unit in order to control this system.

• Use a 3-ringed miniplug SR+ cable to connect the CONTROL IN jack of this unit through a media receiver to the CONTROL OUT jack of your plasma display.[1]

Before you can use the extra SR+ features, you need to make a few settings in the unit. See *SR+ Setup for Pioneer plasma displays* below for detailed instructions.

SR+ Setup for Pioneer plasma displays

Make the following settings if you have connected a Pioneer plasma display to this unit using an SR+ cable. Note that the number of video inputs available will depend on the plasma display you've connected.

1 Press SHIFT+SR+ on the remote.

2 Use the ←/→ to select SETUP, then press ENTER.

3 Use ↑/↓ to select the setting you want.

- **VOL.C OFF** – This unit does not control the volume of the plasma display.
- **VOL.C ON** – When this unit is switched to one of the inputs that use the plasma display (**DVD**, or another one of functions below), the volume on the plasma display is muted so only sound from this system is heard.

4 Assign any input source connected to the plasma display to the corresponding input number.

Use ←/→ to select the source (**DVD**, **LN** (**LINE**) or **USB**), then ↑/↓ to select the input number.

This matches this unit's input source with a numbered video input on the plasma display.[2] For example, select the **LN PDP3** setting if the video output of your line component is connected to video input 3 on the plasma display. **TVTN** switches the plasma display to its built-in tuner and **NONE** leaves the plasma display input as is (no switching takes place).

5 When you're finished, press ENTER.

Switching on the SR+ mode

1 Press SHIFT+SR+ on the remote.

2 Use ←/→ to select SR+ ON then press ENTER.

To switch SR+ control off, select **SR+ OFF**.

- If you disconnect the SR+ cable or switch the plasma display off while SR+ is on, the **SR+ ON** setting remains.
- The SR+ setting is maintained even after switching this system into standby then back on. Automatic muting will be effective when this system is switched on.

Note

1 You won't be able to use the remote sensor of this unit with the **CONTROL IN** jack of this unit connected to the **CONTROL OUT** jack of your plasma display. You can use the remote sensor of the plasma display (even in standby) as long as the power isn't switched off.

2 The **PDP5** input may be called 'PC Input' (or similar) on your plasma display.

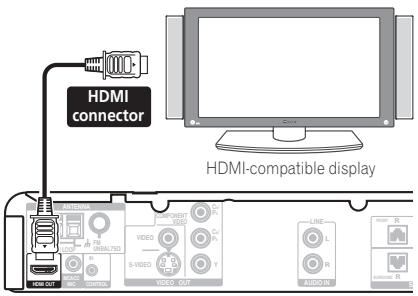
Connecting using HDMI

XV-DV656 only

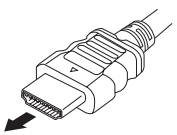
If you have a HDMI or DVI (with HDCP) equipped monitor or display, you can connect it to this player using a commercially available HDMI cable for high quality digital video.[1]

See *About HDMI* below for more about the HDMI connection.

- **Use an HDMI cable to connect the HDMI OUT interconnect on this player to an HDMI interconnect on a HDMI-compatible monitor.**



- The arrow on the cable connector body should be face up for correct alignment with the connector on the player.



You can also adjust the HDMI settings for resolution and color. For more on these settings see *Video Output settings* on page 27.

Switching the HDMI audio setting

To listen to audio from the HDMI interconnect, make sure you've specified the HDMI audio output setting.

1 Switch the system into standby.

2 Press SHIFT+SETUP and use ⬅/➡ to choose HDMI OUT then press ENTER.

3 Use ⬆/⬇ to choose the setting you want then press ENTER.

- **AUDIO ON** – Audio signals are output through the HDMI interconnect[2]
- **AUDIO OFF** – Switches off HDMI audio

Resetting the HDMI connection

If you get an error message (the display shows **HDMI ERR**) or if the screen goes blank (for example, after changing the resolution), check the troubleshooting guide on page 44. If this doesn't solve the problem, follow the steps below to reset the HDMI connection.

1 Switch the system into standby.

2 Press SHIFT+SETUP and use ⬅/➡ to choose HDMI INI then press ENTER.

The system will restart and the HDMI settings are automatically reset to the factory defaults. See *Video Output settings* on page 27 for more on these settings.

Note

1 • An HDMI connection can only be made with DVI-equipped components compatible with both DVI and High Bandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a separate adaptor (DVI ➞ HDMI) to do so. A DVI connection, however, does not support audio signals. Consult your local audio dealer for more information.

• This unit has been designed to be compliant with HDMI (High Definition Multimedia Interface) Version 1.1. Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers.

• When you change the component connected to the HDMI output, you will also need to change the HDMI settings to match the new component (see *Video Output settings* on page 27 to do this).

2 If the **AUTO** surround mode is selected, there are cases where you won't hear sound from the center and surround speakers. In this case, we recommend selecting **AUDIO OFF**.

About HDMI

HDMI (High Definition Multimedia Interface) supports both video and audio on a single digital connection for use with DVD players, DTV, set-top boxes, and other AV devices. HDMI was developed to provide the technologies of High Bandwidth Digital Content Protection (HDCP) as well as Digital Visual Interface (DVI) in one specification. HDCP is used to protect digital content transmitted and received by DVI-compliant displays.

HDMI has the capability to support standard, enhanced, or high-definition video plus standard to multichannel surround-sound audio. HDMI features include uncompressed digital video, a bandwidth of up to 2.2 gigabytes per second (with HDTV signals), one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

Chapter 10
Additional information

Optional system settings

All the available settings in the standby setup menu are listed below. See the notes in each section for more information about the settings. The first setting in each section is the default.

1 Switch the system into standby.

2 Press SHIFT+SETUP and use ⬅/➡ then ENTER to choose the setting you want to adjust.

The available settings are shown in the front panel display.[1]

3 Use ⬆/⬇ to adjust then press ENTER to confirm and exit.

System demo setting

Switches the automatic demo feature on or off (this starts when you plug in for the first time):

- **DEMO ON** – Switches the demo feature on.
- **DEMO OFF** – Switches the demo feature off.

TV system setting

The default setting of this system is **AUTO**, and unless you notice that the picture is distorted when playing some discs, you should leave it set to **AUTO**. If you find picture distortion with some discs, set the TV system to match your country or region's system. However, this may restrict the kinds of disc you can watch. See the table for the kinds of discs compatible with each setting (**AUTO**, **PAL** and **NTSC**).[2]

• After using ⬅/➡ to choose TV SYS (step 2 above), press ENTER to change the TV system as follows:

- **AUTO → NTSC**
- **NTSC → PAL**
- **PAL → AUTO**

The system automatically switches on and you'll see the new TV system setting in the display after seeing **WELCOME**.[3]

		Player setting		
Media Type	**Format**	**NTSC**	**PAL**	**AUTO**
DVD/Super VCD/ Video CD/DivX Video	**NTSC**	NTSC	PAL	NTSC
	PAL	NTSC	PAL	PAL
CD/MP3/WMA/ MPEG-4 AAC/ JPEG/no disc	**—**	NTSC	PAL	NTSC or PAL

DTS CD setting

If you play a DTS-encoded CD, you will need to change this setting to hear the decoded signal.

- **NORMAL** – Regular CD playback; some DTS-encoded CDs output a noisy signal.
- **DTS-CD** – Proper decoding of DTS-encoded CDs; the beginning of regular CD tracks my be skipped.

Note

1 The setup menu is exited automatically after 5 minutes of inactivity.

2 Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage. However, in some cases, the image may appear without color. If your PAL TV does not have a V-Hold control, you may not be able to watch NTSC discs because of picture roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen.

3 You have to switch the player into standby (press ⏻ **STANDBY/ON**) before each change.

Key lock setting

- **LOCK ON** – Makes the front panel buttons and controls inoperative.
- **LOCK OFF** – Restores regular use of the front panel buttons and controls.

Setting the sleep timer

The sleep timer switches off the system after about an hour so you can fall asleep without worrying about it.[1]

- **Press SLEEP repeatedly to select an option.**

Choose between the following options:

- **SLP ON** – Switches off after about an hour
- **SLP OFF** – Cancels the sleep timer

After selecting **SLP ON**, you can press **SLEEP** again to check how much time is left. Each line indicates approximately 12 minutes (remaining):

Dimming the display

You can choose one of two brightness settings for the front panel display.

1 Press SHIFT+SETUP and use ⬅/➡ to select DIMMER then press ENTER.

2 Use ⬆/⬇ to adjust then press ENTER to confirm and exit.

- **LIGHT** – Brighter setting
- **DARK** – Darker setting

Disc / content format playback compatibility

This player is compatible with a wide range of disc types (media) and formats. Playable discs will generally feature one of the following logos on the disc and/or disc packaging. Note however that some disc types, such as recordable CD and DVD, may be in an unplayable format.

See the *Disc compatibility table* below for more information.

DVD-Video DVD-R DVD-RW

COMPACT disc DIGITAL AUDIO
COMPACT disc DIGITAL VIDEO
COMPACT disc DIGITAL AUDIO Recordable
COMPACT disc DIGITAL AUDIO ReWritable

Audio CD Video CD CD-R CD-RW

Fujicolor CD

- This unit will play DVD+R/+RW discs.
- *is a trademark of Fuji Photo Film Co. Ltd.*
- *is a trademark of DVD Format/Logo Licensing Corporation.*
- Also compatible with KODAK Picture CD.

This player supports the IEC's Super VCD standard for superior picture quality, dual soundtracks, and widescreen support.

Super Video CD (Super VCD)

Note

1 The display dims when the sleep timer is set.

About DualDisc playback

A DualDisc is a new two -sided disc, one side of which contains DVD content video, audio, etc. while the other side contains non-DVD content such as digital audio material.

The non-DVD, audio side of the disc is not compliant with the CD Audio specification and therefore may not play.

The DVD side of a DualDisc plays in this product. DVD-Audio content will not play.

For more detailed information on the DualDisc specification, please refer to the disc manufacturer or disc retailer.

Disc compatibility table

Media	Compatible formats
CD-R/RW	• CD-Audio, Video CD/Super VCD, ISO 9660 CD-ROM* ** ISO 9660 Level 1 or 2 compliant. CD physical format: Mode1, Mode2 XA Form1. Romeo and Joliet file systems are both compatible.* • Multi-session playback: No • Unfinalized disc playback: No
DVD-R/RW	• DVD-Video (Video mode), Video Recording (VR)*, UDF Bridge DVD-ROM ** Edit points may not play exactly as edited; screen may go momentarily blank at edited points.* • Multi Border playback: No • Unfinalized playback: No
PC-created disc	• Discs recorded using a PC may not be playable due to the setting of the software used to create the disc. In these instances, check the DVD-R/RW or CD-R/RW software manual or disc boxes for more on compatibility. • Discs recorded in packet write mode are not compatible.
Compressed audio	• MPEG-1 Audio Layer 3 (MP3), Windows Media Audio (WMA), MPEG-4 AAC • Sampling rates: 32 kHz / 44.1 kHz / 48 kHz • Bit-rates: Any (128 kbps or higher recommended) • VBR (variable bit rate) MP3/WMA/MPEG-4 AAC playback: No • WMA lossless encoding: No • DRM (Digital Rights Management) compatible: Yes (DRM-protected audio files will *not* play in this player). • File extensions: .mp3, .wma, .m4a (these must be used for the player to recognize MP3/WMA/MPEG-4 AAC files) • File structure (may differ): Up to 299 folders on a disc; up to 648 folders and files (combined) within each folder
JPEG file	• Baseline JPEG and EXIF 2.2* still image files up to a resolution of 3072 x 2048. **File format for digital still cameras* • Progressive JPEG compatible: No • File extensions: .jpg (must be used for the player to recognize JPEG files) • File structure (may differ): Up to 299 folders on a disc; up to 648 folders and files (combined) within each folder

About DVD+R/DVD+RW compatibility

Only DVD+R/DVD+RW discs recorded in 'Video Mode (DVD Video Mode)' which have been finalized, can be played back. However, some editing made during the recording may not be played back accurately.

About DivX

DivX is a compressed digital video format created by the DivX® video codec from DivX, Inc. This player can play DivX video files burned on CD-R/RW and DVD-R/RW/ROM discs. Keeping the same terminology as DVD-Video,

individual DivX video files are called 'Titles'. When naming files/titles on a CD-R/RW or DVD-R/RW disc prior to burning, keep in mind that by default they will play in alphabetical order.

DivX video compatibility

- Official DivX® Certified product.
- Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files.[1]
- File extensions: .avi and .divx (these must be used for the player to recognize DivX video files). *Note that all files with the .avi extension are recognized as MPEG4, but not all of these are necessarily DivX video files and therefore may not be playable on this player.*

Displaying DivX subtitle files

The font sets listed below are available for DivX external subtitle files. You can see the proper font set on-screen by setting the **Subtitle Language** (in *Language settings* on page 28) to match the subtitle file.[2]

Group 1: Albanian (sq), Basque (eu), Catalan (ca), Danish (da), Dutch (nl), English (en), Faroese (fo), Finnish (fi), French (fr), German (de), Icelandic (is), Irish (ga), Italian (it), Norwegian (no), Portuguese (pt), Rhaeto-Romanic (rm), Scottish (gd), Spanish (es), Swedish (sv)
Group 2: Albanian (sq), Croatian (hr), Czech (cs), Hungarian (hu), Polish (pl), Romanian (ro), Slovak (sk), Slovenian (sl)
Group 3: Bulgarian (bg), Byelorussian (be), Macedonian (mk), Russian (ru), Serbian (sr), Ukrainian (uk)
Group 4: Hebrew (iw), Yiddish (ji)
Group 5: Turkish (tr)

DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

About MPEG-4 AAC

Advanced Audio Coding (AAC) is at the core of the MPEG-4 AAC standard, which incorporates MPEG-2 AAC, forming the basis of the MPEG-4 audio compression technology. The file format and extension used depend on the application used to encode the AAC file. This unit plays back AAC files encoded by iTunes® bearing the extension '**.m4a**'. DRM-protected files will not play, and files encoded with some versions of iTunes® may not play, or filenames may display incorrectly.

Apple and iTunes are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.

About WMA

The Windows Media® logo printed on the box indicates that this player can playback Windows Media Audio content.

WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. WMA content can be encoded by using Windows Media® Player version 7, 7.1, Windows Media® Player for Windows® XP, or Windows Media® Player 9 Series.

Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Note

1 Playback of .avi video files larger than 4 GB is not possible.

2 • For external subtitle files the following subtitle format filename extensions are supported (please note that these files are not shown within the disc navigation menu): .srt, .sub, .ssa, .smi
- Some external subtitle files may be displayed incorrectly or not at all.
- The filename of the movie file has to be repeated at the beginning of the filename for the external subtitle file.
- The number of external subtitle files which can be switched for the same movie file is limited to a maximum of 10.

Using and taking care of discs

Handling discs

Hold the disc by its edges when handling so as not to leave fingerprints, dirt or scratches on either side of the disc. Damaged or dirty discs can affect playback performance.

If a disc becomes marked with fingerprints, dust, etc., clean using a soft, dry cloth.

Wipe lightly from the center of the disc using straight strokes. Don't wipe the disc surface with circular strokes.

If necessary, use a cloth soaked in alcohol, or a commercially available CD/DVD cleaning kit to clean a disc more thoroughly. Never use benzine, thinner or other cleaning agents such as those designed for cleaning vinyl records.

Storing discs

Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight). Don't glue paper or put stickers onto the disc, or use a pencil, ball-point pen or other sharp-tipped writing instrument. These could all damage the disc.

Discs to avoid

Discs spin at high speed inside the player. If a disc is cracked, chipped, warped, or otherwise damaged, don't risk using it in your player—you could end up damaging the unit.

This unit is designed for use with conventional, fully circular discs only. Pioneer disclaims all liability arising in connection with the use of shaped discs.

DVD Video regions

All DVD Video discs carry a region mark that indicates which region(s) of the world the disc is compatible with. Your DVD system also has a region mark (on the rear panel). Discs from incompatible regions will not play in this player. In this instance, the following message appears on-screen:

Incompatible disc region number

Can't play disc

Discs marked **ALL** play in any player.

Installation and maintenance

Hints on installation

We want you to enjoy using this system for years to come, so please bear in mind the following points when choosing a location:

Do...

- ✓ Use in a well-ventilated room.
- ✓ Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don't...

- ✗ Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- ✗ Place on a window sill or other place where the system will be exposed to direct sunlight.
- ✗ Use in an excessively dusty or damp environment.
- ✗ Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.
- ✗ Use near a television or monitor as you may experience interference—especially if the television uses an indoor antenna.
- ✗ Use in a kitchen or other room where the system may be exposed to smoke or steam.
- ✗ Use on a thick rug or carpet, or cover with cloth—this may prevent proper cooling of the system unit.
- ✗ Place on an unstable surface, or one that is not large enough to support all four of the system unit's feet.

Cleaning the pickup lens

The DVD player's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer authorized service center. Although lens cleaners are commercially available, we do not recommend using them since some may damage the lens.

Problems with condensation

Condensation may form inside the player if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although the condensation won't damage the player, it may temporarily impair performance. Leave it to adjust to the warmer temperature for about an hour before switching on.

Moving the system unit

If you need to move the main unit, first remove a disc if there's one in the player, then press ⏻ **STANDBY/ON** on the front panel to turn the system off. Wait for **GOOD BYE** to disappear from the display, then unplug the power cord.[1] Never lift or move the unit during playback—discs rotate at high speeds and may damage.

Screen sizes and disc formats

DVD-Video discs come in different screen aspects, ranging from TV programs, which are generally 4:3, to CinemaScope widescreen movies[2], with an aspect ratio of up to about 7:3.

Televisions also come in different aspect ratios; 'standard' 4:3 and widescreen 16:9.[3]

Set to 4:3 (Letter Box), widescreen discs are shown with black bars top and bottom.

Set to **4:3 (Pan&Scan)**, widescreen discs are shown with the left and right sides cropped. Although the picture looks larger, you don't actually see the whole picture.

Note

1 Unplugging the unit before **GOOD BYE** disappears from the display may cause the system to return to the factory settings.

2 Many widescreen discs override the system's settings so that the disc is shown in letterbox format regardless of the setting.

3 • Using the **16:9 (Wide)** setting with a standard 4:3 TV, or one of the **4:3** settings with a widescreen TV, will result in distortion.
• When you watch discs recorded in 4:3 format, you can use the TV controls to select how the picture is presented. Your TV may offer various zoom and stretch options; see the instructions that came with your TV for details.
• Some movie aspect ratios are wider than 16:9, so even with a widescreen TV, these discs will still play in a 'letterbox' style.

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

- If the system does not operate normally due to external effects such as static electricity disconnect the plug from the outlet and insert again to return to normal operating conditions.

General

Problem	Remedy
The power does not turn on, or switches off suddenly (an error message may be displayed at startup).	• Wait for one minute before switching back on. • Make sure there are no loose strands of wire touching the unit. This could cause the system to shut off automatically. • Check that the speakers are connected correctly. • Make sure the voltage of the mains power source is correct for the model. • Try reducing the volume level. • If the problem persists, take it to your nearest Pioneer authorized service center or your dealer for servicing.
No sound is output when a function is selected.	• If you're using the line input, make sure the component is connected correctly (see *Connecting auxiliary audio components* on page 31). • Press **MUTE** on the remote control to turn muting off.
No sound from surround or center speakers.	• Refer to *Channel level setting* on page 25 to check the speaker levels. • When **TUNER** is selected, you can only hear the source in stereo. • Check that you haven't selected the **AUTO**, **STEREO** or **VIRTUAL** mode (see *Listening to your system* on page 14). • Connect the speakers properly (refer to the Setup Guide). • If the source is 96 kHz, it will be played in stereo.
Can't operate the remote control.	• Replace the batteries (refer to the Setup Guide). • Operate within 7 m, 30° of the remote sensor (refer to the Setup Guide). • Remove any obstacles or operate from another position. • Avoid exposing the remote sensor on the front panel to direct light. • Check that there's nothing mistakenly plugged into the **CONTROL IN** jack. • If the system is connected to a Pioneer plasma display with an SR+ cable, check that the plasma display is switched on. Point the remote control at the plasma display in order to operate the system.
TRAYLOCK shows in the display and the tray can't be ejected.	• Press and hold ⏏ (eject) on the front panel for about eight seconds. Then the tray can be opened/closed using ⏏ (eject).
SND. DEMO shows in the display and the unit can't be controlled.	• Press and hold ■ (stop) on the front panel for about five seconds. The disc tray ejects automatically to indicate the Sound Demo mode is disabled.

DVD/CD/Video CD player

Problem	Remedy
The disc is ejected automatically after loading.	• Clean the disc and align the disc properly in the disc guide. • If the region number on a DVD-video disc does not match the number on the player, the disc cannot be used (see *DVD Video regions* on page 40). In this instance, the following message appears on screen: **Incompatible disc region number** / **Can't play disc**. • Allow time for any condensation inside the player to evaporate. Avoid using the player near an air-conditioning unit.
Playback not possible.	• If the disc is loaded upside down, reload the disc with label side face up.
Picture playback stops and buttons cannot be used.	• Press ■ (stop), then ► (play) to start playback again. • Switch the power off once, then on again using the front panel ⏻ **STANDBY/ON** button.
Settings are canceled.	• When the power is cut, settings will be canceled.
No picture/No color.	• Check that connections are correct and that plugs are inserted fully. • Check the manual of the TV/monitor to make sure the settings are correct. • If the **Progressive** setting is selected and you have used component video cables to connect a TV that is not compatible with a progressive scan signal, you will not be able to see any picture at all. With your TV connected using either the composite or S-video terminals, change the **Component Out** setting to **Interlace** (see *Video Output settings* on page 27).
Screen is stretched or aspect doesn't change.	• The **TV Screen** setting is incorrect. Set the TV Screen option to match the TV/monitor you're using (see *Video Output settings* on page 27).
When recorded on a VCR or passed through an AV selector, there is disturbance in the playback picture.	• This system uses copy-protection technology which may prevent recording or cause picture problems when connected through a VCR or AV selector. This is not a malfunction.
Picture disturbance during playback or dark.	• This player is compatible with Macro-Vision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV. This is not a malfunction. • Discs respond differently to particular player functions. This may result in the screen becoming black for a brief instant or shaking slightly when the function is executed. These problems are largely due to differences between discs and disc content and are not malfunctions of this player.
Noticeable difference in DVD and CD volume.	• DVDs and CDs use different recording methods. This is not a malfunction.
CD-ROM disc is not recognized.	• Make sure that the CD-ROM was recorded using the ISO 9660 disc format. See *Disc compatibility table* on page 38 for more on disc compatibility.
DVD-ROM disc is not recognized.	• Make sure that the DVD-ROM was recorded using the UDF bridge format. See *Disc compatibility table* on page 38 for more on disc compatibility.

Problem	Remedy
Files don't show up in the Disc Navigator/ Photo Browser.	• The files on the disc must be named with the correct file extension: .mp3 for MP3 files; .wma for WMA files; .m4a for MPEG-4 AAC files; .jpg for JPEG files (upper or lower-case is OK). See *Disc compatibility table* on page 38.
Can't play WMA or MPEG-4 AAC files.	• The files were recorded using DRM (digital rights management). This is not a malfunction.

Tuner

Problem	Remedy
Considerable noise in radio broadcasts.	• Connect the AM antenna (refer to the *Setup Guide*) and adjust the direction and position for best reception. You may also connect an additional internal or external AM antenna (refer to *Connecting external antennas* on page 31). • Fully extend the FM wire antenna, position for best reception, and secure to a wall. You may also connect an outdoor FM antenna (see *Connecting external antennas* on page 31). • Turn off other equipment that may be causing the noise or move it further away.
Auto tuning does not pick up some stations.	• The radio signal is weak. Auto tuning will only detect radio stations with a good signal. For more sensitive tuning, connect an outdoor antenna.

USB connection

Problem	Remedy
USB mass storage device is not recognized by the system.	• Make sure you have completely inserted the USB connector to this unit. • Check that the memory format is FAT16 or FAT32. • USB devices with an internal USB hub are not supported.
Files don't show up in the Navigator/Photo Browser.	• The files must have the correct file extension: .mp3 for MP3 files; .wma for WMA files; .m4a for MPEG-4 AAC files; .jpg for JPEG files (upper or lower-case is OK). • Make sure the file permission hasn't been restricted (through a password, etc.).
Can't play WMA or MPEG-4 AAC files.	• The files were recorded using DRM (digital rights management). This is not a malfunction.

HDMI connection *(XV-DV656 only)*

Problem	Remedy
No HDMI audio output.	• See *Switching the HDMI audio setting* on page 34 to make sure that **AUDIO ON** is selected.
No HDMI video output	• Make sure that you've selected this player as the HDMI input in the settings for the component you're using (refer to the component's instruction manual). • Check that the HDMI cable is connected properly and isn't damaged. • Check that components connected using the HDMI interface are switched on and HDMI compatible. (components must be compatible with both DVI and High Bandwidth Digital Content Protection (HDCP).) • This unit has been designed to be compliant with HDMI Version 1.1. Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers. • Make sure the resolution on this unit matches that of the component connected using HDMI. See *Video Output settings* on page 27 to change the resolution. • If the screen goes blank after changing the resolution, it means the you selected a resolution incompatible with your monitor. See *Resetting the HDMI connection* on page 34 to reset to the factory defaults.
Color problems occur with your monitor after changing the **HDMI Color** setting (page 28).	• Depending on the connected equipment, some **HDMI Color** settings may cause the picture to be displayed incorrectly. In this case, use the TV's own video input settings to select RGB, if possible. Alternatively, revert to the previous **HDMI Color** setting.

Error Messages

Message	Description
2CH ONLY	• An operation is prohibited because it is only applicable to 2 channel sources, while the current source is a multichannel source.
96K	• An operation is prohibited because the source is 96 kHz digital.
SND. DEMO	• The sound demo is on. See *General* in *Troubleshooting* on page 42.
NOISY	• Background noise is too high to complete MCACC setup successfully.
ERR MIC	• An error occured during MCACC setup because the microphone is not connected or is not connected properly.
ERR SP	• An error occured during MCACC setup because the speakers are not connected or are not connected properly.
MUTING	• An operation is prohibited because the sound is muted (press **MUTE**).
STEREO	• An operation is prohibited because the tuner is selected.
TRAYLOCK	• The tray lock is on. See *General* in *Troubleshooting* on page 42.
KEY LOCK	• The key lock is enabled. See *Key lock setting* on page 37.
PHONESIN	• An operation is prohibited because the headphones are connected.
USB ERR	• See *Important* in *Using the USB interface* on page 23 for more on this.

Message	Description
HDMI ERR	• *XV-DV656 only* – See *HDMI connection (XV-DV656 only)* above for troubleshooting tips. See also *Resetting the HDMI connection* on page 34 if the problem persists.
EEP ERR	• Contact your Pioneer authorized service center or your dealer for servicing.
EXIT	• Appears when a menu is automatically exited after a set period of inactivity.

Resetting the system

Use the front panel controls to reset all system settings to the factory default.

- **With the system on, press ⏻ STANDBY/ ON while holding down ▶/II USB.**

The next time you switch on, all the system settings should be reset.

Using the language code list

Some of the language options (see *Language settings* on page 28) allow you to set your preferred language from any of the 136 languages in the *Language code list* below.

1 Select 'Other Language'.

2 Use ⬅/➡ to select either a code letter or a code number.

3 Use ⬆/⬇ to select a code letter or a code number.

See the *Language code list* (next page) for a complete list of languages and codes.

Language code list

Language (Language code letter), **Language code**

Japanese (ja), **1001**
English (en), **0514**
French (fr), **0618**
German (de), **0405**
Italian (it), **0920**
Spanish (es), **0519**
Dutch (nl), **1412**
Russian (ru), **1821**
Chinese (zh), **2608**
Korean (ko), **1115**
Greek (el), **0512**
Afar (aa), **0101**
Abkhazian (ab), **0102**
Afrikaans (af), **0106**
Amharic (am), **0113**
Arabic (ar), **0118**
Assamese (as), **0119**
Aymara (ay), **0125**
Azerbaijani (az), **0126**
Bashkir (ba), **0201**
Byelorussian (be), **0205**
Bulgarian (bg), **0207**
Bihari (bh), **0208**
Bislama (bi), **0209**
Bengali (bn), **0214**
Tibetan (bo), **0215**
Breton (br), **0218**
Catalan (ca), **0301**
Corsican (co), **0315**
Czech (cs), **0319**
Welsh (cy), **0325**
Danish (da), **0401**
Bhutani (dz), **0426**
Esperanto (eo), **0515**
Estonian (et), **0520**
Basque (eu), **0521**
Persian (fa), **0601**
Finnish (fi), **0609**
Fiji (fj), **0610**
Faroese (fo), **0615**
Frisian (fy), **0625**
Irish (ga), **0701**
Scots-Gaelic (gd), **0704**
Galician (gl), **0712**
Guarani (gn), **0714**
Gujarati (gu), **0721**
Hausa (ha), **0801**
Hindi (hi), **0809**
Croatian (hr), **0818**
Hungarian (hu), **0821**
Armenian (hy), **0825**
Interlingua (ia), **0901**
Interlingue (ie), **0905**
Inupiak (ik), **0911**
Indonesian (in), **0914**
Icelandic (is), **0919**
Hebrew (iw), **0923**
Yiddish (ji), **1009**
Javanese (jw), **1023**
Georgian (ka), **1101**
Kazakh (kk), **1111**
Greenlandic (kl), **1112**
Cambodian (km), **1113**
Kannada (kn), **1114**
Kashmiri (ks), **1119**
Kurdish (ku), **1121**
Kirghiz (ky), **1125**
Latin (la), **1201**
Lingala (ln), **1214**
Laothian (lo), **1215**
Lithuanian (lt), **1220**
Latvian (lv), **1222**
Malagasy (mg), **1307**
Maori (mi), **1309**
Macedonian (mk), **1311**
Malayalam (ml), **1312**
Mongolian (mn), **1314**
Moldavian (mo), **1315**
Marathi (mr), **1318**
Malay (ms), **1319**
Maltese (mt), **1320**
Burmese (my), **1325**
Nauru (na), **1401**
Nepali (ne), **1405**
Norwegian (no), **1415**
Occitan (oc), **1503**
Oromo (om), **1513**
Oriya (or), **1518**
Panjabi (pa), **1601**
Polish (pl), **1612**
Pashto, Pushto (ps), **1619**
Portuguese (pt), **1620**
Quechua (qu), **1721**
Rhaeto-Romance (rm), **1813**
Kirundi (rn), **1814**
Romanian (ro), **1815**
Kinyarwanda (rw), **1823**
Sanskrit (sa), **1901**
Sindhi (sd), **1904**
Sangho (sg), **1907**
Serbo-Croatian (sh), **1908**
Sinhalese (si), **1909**
Slovak (sk), **1911**
Slovenian (sl), **1912**
Samoan (sm), **1913**
Shona (sn), **1914**
Somali (so), **1915**
Albanian (sq), **1917**
Serbian (sr), **1918**
Siswati (ss), **1919**
Sesotho (st), **1920**
Sundanese (su), **1921**
Swedish (sv), **1922**
Swahili (sw), **1923**
Tamil (ta), **2001**
Telugu (te), **2005**
Tajik (tg), **2007**
Thai (th), **2008**
Tigrinya (ti), **2009**
Turkmen (tk), **2011**
Tagalog (tl), **2012**
Setswana (tn), **2014**
Tonga (to), **2015**
Turkish (tr), **2018**
Tsonga (ts), **2019**
Tatar (tt), **2020**
Twi (tw), **2023**
Ukrainian (uk), **2111**
Urdu (ur), **2118**
Uzbek (uz), **2126**
Vietnamese (vi), **2209**
Volapük (vo), **2215**
Wolof (wo), **2315**
Xhosa (xh), **2408**
Yoruba (yo), **2515**
Zulu (zu), **2621**

Country/Area code list

Country/Area, Country/Area code, **Country/Area code letter**

Argentina, **0118, ar**
Australia, **0121, au**
Austria, **0120, at**
Belgium, **0205, be**
Brazil, **0218, br**
Canada, **0301, ca**
Chile, **0312, cl**
China, **0314, cn**
Denmark, **0411, dk**
Finland, **0609, fi**
France, **0618, fr**
Germany, **0405, de**
Hong Kong, **0811, hk**
India, **0914, in**
Indonesia, **0904, id**
Italy, **0920, it**
Japan, **1016, jp**
Korea, Republic of, **1118, kr**
Malaysia, **1325, my**
Mexico, **1324, mx**
Netherlands, **1412, nl**
New Zealand, **1426, nz**
Norway, **1415, no**
Pakistan, **1611, pk**
Philippines, **1608, ph**
Portugal, **1620, pt**
Russian Federation, **1821, ru**
Singapore, **1907, sg**
Spain, **0519, es**
Switzerland, **0308, ch**
Sweden, **1905, se**
Taiwan, **2023, tw**
Thailand, **2008, th**
United Kingdom, **0702, gb**
United States of America, **2119, us**

Specifications

- **Amplifier section**

RMS Power Output:
Front, Center, Surround . . 100 W per channel (1 kHz, 10 % T.H.D., 4 Ω)
Subwoofer . .100 W (100 Hz, 10 % T.H.D., 4 Ω)

- **Disc section**

Digital audio characteristics . . . . . DVD fs: 96 kHz, 24-bit
Type . . . . . DVD system, Video CD/Super VCD system and Compact Disc digital audio system
Frequency response . . . 4 Hz to 44 kHz (96 kHz sampling) / 4 Hz to 22 kHz (48 kHz sampling)
Wow and Flutter . . . . . .Limit of measurement (±0.001 % W.PEAK) or less (JEITA)

- **FM tuner section**

Frequency range . . . . . 87.5 MHz to 108 MHz
Antenna . . . . . 75 Ω, unbalanced

- **AM tuner section**

Frequency range . . . . . 531 kHz to 1602 kHz
Antenna . . . . . .Loop antenna

- **Miscellaneous**

Power requirements . . . . . .AC 110 V to 240 V, 50 Hz /60 Hz
Power consumption . . . . . 55 W
Power consumption in standby. . . . . .0.29 W
Dimensions. . .420 mm (W) x 60 mm (H) x 330 mm (D)
Weight . . . . . 3.3 kg

- **Accessories (DVD/CD receiver)**

Remote control 1
AA/R6 dry cell batteries . . . . . 2 (to confirm system operation)
Video cable (yellow plugs) 1
AM loop antenna 1
FM antenna 1
Microphone (for Auto MCACC setup). 1
Power cord 1
Setup Guide
These operating instructions

S-DV353 Speaker system

- **Front/surround speakers**

Enclosure . . . . . .Closed-box bookshelf type (magnetically shielded)
System . . . . . 7.7 cm 1-way system
Speakers. . . . . 7.7 cm cone type
Nominal impedance . . . . . 4 Ω
Frequency range . . . . . .80 Hz to 20 kHz
Maximum input power . . . . . .100 W
Dimensions . . . . 100 mm (W) x 136 mm (H) x 80 mm (D)
Weight . . . . . .0.55 kg

- **Center speaker**

Enclosure . . . . . .Closed-box bookshelf type (magnetically shielded)
System . . . . . 7.7 cm 1-way system
Speakers. . . . . 7.7 cm cone type
Nominal impedance . . . . . 4 Ω
Frequency range . . . . . .75 Hz to 20 kHz
Maximum input power . . . . . .100 W
Dimensions . . . . . 270 mm (W) x 96 mm (H) x 90 mm (D)
Weight . . . . . .0.78 kg

- **Subwoofer**

Enclosure . . . . . .Bass-reflex floorstanding type
System . . . . . .16 cm 1-way system
Speaker. . . . . .16 cm cone type
Nominal impedance . . . . . 4 Ω
Frequency range . . . . . 30 Hz to 2.5 kHz
Maximum Input Power . . . . . .100 W
Dimensions . . . 190 mm (W) x 360 mm (H) x 320 mm (D)
Weight . . . . . .4.0 kg

- **Accessories**

Speaker cables. 6
Speaker stands (for surround speakers) 2
Screws (for stands) 2
Non-skid pads (small) 20
Non-skid pads (large) 4

S-DV1T Speaker system

- **Front/surround speakers**

Enclosure . . . . . Closed-box floorstanding type (magnetically shielded)
System . . . . . 2-way system
Speakers:
Woofer . . . . . 7.7 cm cone typex2
Tweeter . . . . . 2.6 cm semi-dome type
Nominal impedance . . . . . 4 Ω
Frequency range . . . . . 70 Hz to 20 kHz
Maximum input power . . . . . 100 W
Dimensions . 260 mm (W) x 1096.5 mm (H) x 260 mm (D)
Weight . . . . . 4.2 kg

- **Center speaker**

Enclosure . . . . . Closed-box bookshelf type (magnetically shielded)
System . . . . . 7.7 cm 1-way system
Speakers. . . . . 7.7 cm cone type
Nominal impedance . . . . . 4 Ω
Frequency range . . . . . 75 Hz to 20 kHz
Maximum input power . . . . . 100 W
Dimensions . . . . . 270 mm (W) x 96 mm (H) x 90 mm (D)
Weight . . . . . 0.78 kg

- **Accessories**

Speaker cables. 5
Small non-skid pads 4
Large non-skid pads 16
Speaker stand bases 4
Screws (for bases) 12

S-DV1SW Speaker system

- **Subwoofer**

Enclosure . . . . . Bass-reflex floorstanding type
System . . . . . 16 cm 1-way system
Speaker. . . . . 16 cm cone type
Nominal impedance . . . . . 4 Ω
Frequency range . . . . . 30 Hz to 2.5 kHz
Maximum Input Power . . . . . 100 W
Dimensions . . . . 220 mm (W) x 421 mm (H) x 402 mm (D)
Weight . . . . . 6.0 kg

- **Accessories**

Speaker cables. 1
Large non-skid pads 6

Note

- Specifications and design subject to possible modification without notice, due to improvements.

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